

L25 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN

AN 1981:157850 HCAPLUS

DN 94:157850

TI Piperidine derivatives, and polymer compositions containing them

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PA Chimosa Chimica Organica S.p.A., Italy

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP-----19578	A1	19801126	1980EP-0810117	19800403 <--
	EP-----19578	B1	19830330		
	R: DE, FR, GB, IT				
	US---4316025	A	19820216	1980US-0139274	19800410 <--
	JP--55147259	A	19801117	1980JP-0049099	19800414 <--
	JP--01022265	B	19890425		
PRAI	1979IT-0021841	A	19790413	<--	

AB N,N'-Di-4-piperidyl derivs. of diazacycloalkanes are stabilizers for polymers, especially polyolefins. Thus, refluxing N, N'-bis(2,2,6,6-tetramethyl-4-piperidyl)ethylenediamine [61260-54-6] 338, BrCH₂CH₂Br [106-93-4] 206.6, and K₂CO₃ 276.4 g in 2 L PhMe 30 h gives N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)piperazine (I) [76802-05-6].

Polypropylene [9003-07-0] containing I 0.2, BHT 0.1, and Ca stearate 0.1% lost 50% tensile strength in 21,080 h accelerated weathering, compared with 300 h with 2-hydroxy-4-actoxybenzophenone instead of I.

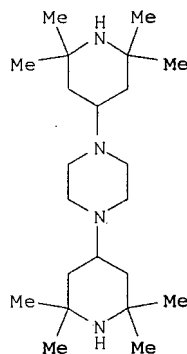
IT 76802-05-6 76802-06-7 76802-07-8

76802-09-0 76802-10-3 76802-19-2

RL: PEP (Physical, engineering or chemical process); PROC (Process) (stabilizers, for polymers)

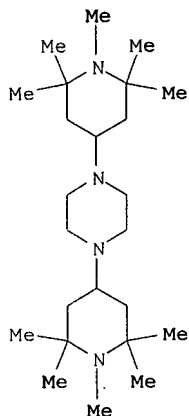
RN 76802-05-6 HCAPLUS

CN Piperazine, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



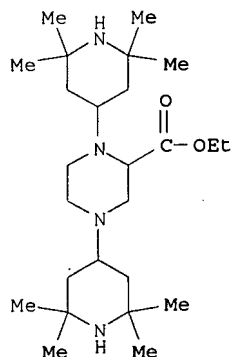
RN 76802-06-7 HCAPLUS

CN Piperazine, 1,4-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



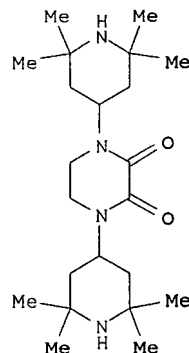
RN 76802-07-8 HCAPLUS

CN 2-Piperazinecarboxylic acid, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



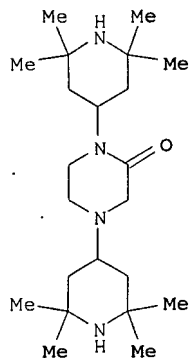
RN 76802-09-0 HCAPLUS

CN 2,3-Piperazinedione, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

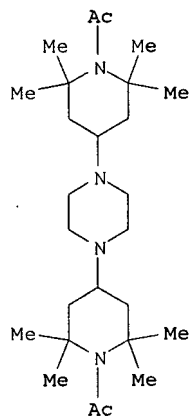


RN 76802-10-3 HCAPLUS

CN Piperazinone, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 76802-19-2 HCAPLUS
 CN Piperidine, 4,4'-(1,4-piperazinediyl)bis[1-acetyl-2,2,6,6-tetramethyl-
 (9CI) (CA INDEX NAME)



L25 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
 AN 1962:31334 HCAPLUS
 DN 56:31334
 OREF 56:5920d-g
 TI Electronic interactions of isomeric phenylazopyridines and related
 N-oxides
 AU Pentimalli, Luciano
 CS Univ. Bologna, Italy
 SO Gazzetta Chimica Italiana (1960), 90, 1203-12
 CODEN: GCITA9; ISSN: 0016-5603
 DT Journal
 LA Unavailable
 AB cf. CA 54, 21087a. 2-Phenylazopyridine (I), long orange red needles, m.
 31°, 3-PhN:NC₅H₄N (II), orange scales, m. 50-1°, and
 4-PhN:NC₅H₄N (III), orange pink lamellas, m. 98-9°, were prepared
 according to Campbell, et al. (CA 48, 3975i). The preparation of the N-oxides
 of I, II, and III was described earlier (CA 52, 4641i; 54, 21087a). A
 study of the ultra-violet spectra of these compds. dissolved in EtOH, and
 in HCl of several normalities (N, 0.1N, 0.01N) showed much similarity
 between I, II, III, and azobenzene, maximum in the ranges 224-9, 312-20, and
 440-50 mμ (EtOH); in acid medium, the latter bands shift to 347 and 442
 mμ for I, 324 and 440 mμ for II, and 334 and 456 mμ for III.
 Bands (mμ in EtOH) for the N-oxides (with intensity log ε
 stated) were: N-oxide of I: 237 (4.11), 273 (4.10), 331 (4.24), and 460;
 of II, 236 (3.98), 280 (4.14), 318 (4.19), 432 (2.67); of III, 236 (4.02),
 356 (4.38), -, 450. In neutral medium, the azo group is
 electron-attracting and thus acts as a poor conjugation conductor in
 electronic interactions of Ph or pyridyl with the azo group. In an acid
 medium, the N-heterocyclic or N-O group is protonized and may cause
 inversion of the normal direction of the conjugation. Eight spectra are